

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-69. (Canceled)

70. **(Currently Amended)** A method for making a genetically stable cell that produces a therapeutically hypermutated immunogen comprising the steps of: introducing into a first cell that expresses a gene encoding a preselected immunogen *in vitro* a polynucleotide comprising PMS2-134, wherein the expression product of the polynucleotide is capable of inhibiting mismatch repair a dominant negative allele of PMS2, selecting cells that comprise a mutation in said gene encoding said preselected immunogen, wherein the mutation results in enhanced antigenicity or immunogenicity of said immunogen; and expressing a polynucleotide sequence of said mutated gene encoding said preselected immunogen in a second genetically stable cell, wherein said second cell is genetically stable.

71. (Canceled)

72. (Previously Presented) The method of claim 70 wherein said introduction of said polynucleotide is in the presence of at least one DNA mutagen.

73. **(Currently Amended)** The method of claim 70 wherein the PMS2 PMS2-134 is human PMS2 PMS2-134.

74. **(Currently Amended)** The method of claim 73 wherein the allele polynucleotide comprises a truncation mutation at codon 134.

75. (Previously Presented) The method of claim 74 wherein the truncation mutation is a thymidine at nucleotide 424 of wild-type PMS2.

76. **(Currently Amended)** The method of claim 70 wherein said step of selecting cells is based on a determination that the polynucleotide encoding said preselected immunogen

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comprises a mutation as compared to the polynucleotide encoding said preselected immunogen of a parental cell prior to introduction of said the polynucleotide comprising PMS2-134 dominant negative allele of a PMS2 mismatch repair gene.

77. (Previously Presented) A homogeneous culture of cells produced by the method of claim 70.